Table of Comparative Minimum Temperatures for the Month of February.

State or Territory.	Minimum for February, 1882, Signal Service.		Lowest since Signal Service stations were opened—3 to 11 years.			Lowest from any other source,			
	Station	Temp.	Station.	Temp.	Year.	Piace.	Temp.	Year.	Leng of Recor
labama	Montgomery	32	Montgomery	22	1875	Huntsville	_°7	1832 & 36	9 yea
rizona	Prescott	5	Prescott	<u>—īī</u>	1880	Fort Canby	12	1855	12
kansas	Little Rock	28	Little Rock	22	1881	Fort Smith	4	1840	21 4
difornia	Campo	17	Campo	22 16	1877	Fort Bidwell	-18	1868	19
olorado	Pike's Peak	-17	Pike's l'eak	-37	1875	Fort Garland	-23		22
Do	West Las Animas	4	Denver	- 20	1881			.	
nnecticut	New Haven	7	New Haven	4	1881	Colebrook	-28	1861	9
kota	Fort Stevenson	-35	Pembina	48	1876	Fort Abercromlie	-40	161 & 169	
laware	Delaware Breakwater	34	Del ware Breakwater	7	1881	Fert Delaware	0	1866?	44
st, of Columbia	Washington	20	Washington	-1.5	1875	Washington	— 5		49
orlda	Pensacola	37	St. Marks	28 21	1875	Fort Barraneas	11	1852?	52
orgia	Augusta and Atlanta	31	Atlanta		1881	Augusta Arsenal	- 2	1835	48
nho	Eagle Rock	29 11	Eagle Rock		1881	Fort Hall	-11	1873?	3
nois	Champaign and Chicago	11	Chicago		1875	Winnebago		1864	11
00	Indianapolis	16	Indianonalia		1	Fort Armstrong		30 & 34	9
lianalian Territory	Indianapolis	15 12	Indianapolis		1875 1881	Spiceland		1866	
va	Fort Supply	12	Fort Supply	8 31	1875	Fort Gibson	$\begin{bmatrix} -13 \\ -37 \end{bmatrix}$	1857? 1868	46 4
nsas	Des Moines Dodge ('ity	7	Dodge City	-10	1881	GuttenburgFort Leavenworth,		1534?	43
ntucky	Louisville	20	Louisville	70	1875	Newport Barracks			27
nisiana	Shreveport	33	Shreveport	23	75 & 81	Fort Jesup.]	'23 & '38	23
00	Surevelore	33	Sireveport	2.3	10 00 01	Baton Rouge	16	1852?	52
ine	Eastport	— 5	Eastport	-20	1876	Brunswick	-28	1859?	53
ryland	Baltimore	-02	Baltimore	4	75 & 81	Fort McHenry	l – î		43
ssachusetts	Springfield	3	Boston	- 6	1876	Lunenburgh		1855	24
00	Springhe.a		Springfield	- 6	1880	Williamstown		1835?	55
chigan	Marquette	2	Alpena	-27	1881	Ontonagon		1861	ii
00	mangaette		Marquette		1876	Fort Brady.		1873	51
nnesota	St. Viacent	—3.i	Breckenridge	_34	75 & 79	Fort Ripley		1860	14
00			Duluth	-34	1875	TOTAL TELEPTON		1000	
ssissippi	Vicksburg	32	Vicksburg	21	1875	Columbus		1	10
souri	Springfield	13	St. Louis,		1875	St. Louis		1835	37
00						Jefferson Barracks	-18	1835	35
ntana,	Terry's Landing	57	Fort Custer	-29	1881	Fort Ellis		1872	6
braska	North Platte	- 4	North Platte	23	1881	Fort McPherson	—24	1874	8
00	***************************************					Fort Kearhey	22	1852?	19
vada	Winnemucca,	17	Pioche	— 3	1879	Fort Ruby		1864?	5
DO	***************************************	*********	Winnemucca	- 5	1880	***************************************			
w Hampshire	Mount Washington	21	Mount Washington	-42	1876	Stratford	37	1861	11
00						Dartmouth College	33	1848?	18
w Jersey	Barnegat	—1s	Atlantic City		1875	Newark	7	1861	10
ю _ <u>_</u>			Squan Beach	5	1875				•
w Mexico	Santa Fe	11	Santa Fe		79 & '80	Fort Union	-7		. 23
w York	Albany	7	Albany	18	1875	Sackett's Harbor	46	1861	8
th Carolina	Santal		37:44-shle		1001	Belleville	34	1835	15
rth Carolina lo	Smithville	24 17	Kittyhawk	111	1881 1875	Fort Johnson Hillsborough		1835	54 35
ιο υ	Cleveland	17	Toledo	—12		Marietta		1838 1852?	63
gon	Umatilla	4	Umatilla	 ()	1881	Camp Harney		1868	6
nsylvania	Philadelphia	18	Erie		1875	Lewisburg		'65 & '67	
0	r mrauerpma		Effe		1010	Philadelphia		1866	113
ode Island	Newport	10	Newport		1881	Providence		1866	35
uh Carolina	Charleston		Charleston		1881	Fort Moultrie		1835	38
nessee	Nashville		Knoxville	8	1875	Glenwood Cottage	. — š	1864?	ii
as	Fort Elliott	13	Fort Elliott	l — i	1881	Fort McKavet	. ŝ	1873?	22
h	Salt Lake City	- 4	Salt Lake City	1 3	1880	Fort Crittenden	6		. 3
mont	Burlington	6	Burlington	18	1881	Randolph	31	1868	5
ginia	Fort Myer	19	Fort Whipple	1	1881	Al-xandria	.1 3	1855	11
ginia ishington T'y	Spokane Falls	-14	Spokane Falls	l — 7	1881	Fort Colville		1862?	14
st Virginia	Spokane Falls Morgantown	21	Morgantown	-10	1875				
sconsin	La Crosse	3	La Crosse	-34	1875	Fort Howard		1823	30
ю	Fort Washakie					Superior City	. -3 8	1863	3
oming		26	Cheyenne	-12	1881	Fort FettermanFort Laramie	-40 -35	1873	25
o	***************************************							1864?	

Northern Slope, 1st to 28th; Middle Slope, 1st to 9th, 12th, following notable instances of extremely low temperatures were 5th, 7th, 8th, 12th, 15th, 17th to 25th, 28th; Northern temperature —26°; Iowest for many years. Plateau, 1st to 7th, 9th to 13th, 15th to 23d; North Pacific Or., January 29th, minimum temperature —4°. Coast Region, 1st, 2d, 3rd, 6th, 7th, 10th, 11th, 13th, 16th to 24th; Middle Pacific Coast Region, 2d, 3d, 4th, 7th, 8th, 10th, 11th, 13th, 14th, 15th, 17th to 23d; Southern Pacific Coast

subject is considered elsewhere in the REVIEW under the head a monthly average for each of the various districts, deter-Princeton, Cal., 19th, \(\frac{3}{2}\) inch thick; Fayette, Miss., 1st; the present month with such averages. Upon comparison Stateburg, S. C., 25th; Ashwood, Tenn., 22d to 25th; with the chart the tabulated averages show three areas of de-Charleston, S. C., 25th, one inch thick in some parts of the city; New River Inlet, N. C., 1st; Denisou, Tex., 21st and ter extends southwestward from the Canadian Maritime Province of the control Texts and the canadian Maritime Province of the control Texts. Ft. Elliott, Tex., 20th.

14th to 17th, 19th, 21st to 27th; Southern Slope, 9th, 20th to received too late to be published in the January REVIEW: 23d; Southern Plateau, 1st to 28th; Middle Plateau, 1st to Parker's Station, Burnt River, Or., January 29th, minimum Canvon, City.

PRECIPITATION.

The general distribution of rain-fall over the United States Region, 2d to 5th, 7th, 8th, 9th, 12th to 15th, 18th to 25th, and Canada for the month of February, 1882, is exhibited upon chart No. III from the reports of over 500 stations. Icc.—Regarding its formation in the northern sections, this From the table in the left hand corner of the chart is obtained of Ice in Rivers and Harbors. The following are exceptional mined from the records of Signal Service stations, covering a cases of its formation in the southern sections of the country: period of several years, to which is subjoined a comparison of 22d, on shallow pools; Little Rock, 21st; Memphis, 21st, inces to central Texas, and thence directly west to the Pacific 22d; Ft. Supply, Ind. Ty., 19th; 21st, \(\frac{3}{4} \) inch thick on river; coast, the departures ranging from 0.25 inch in the South Pacific Coast Region to 3.16 inches in Tennessee, and 3.74 Low Temperatures,—Winnemucca, Nev., 18th, minimum tem-inches in the Ohio Valley. Within the central portion of this perature -17°, the lowest ever experienced at this place. The large area rains were continuous and excessive during the

month, resulting in heavy freshets and an enormous destruction of property, the details of which will appear elsewhere in the REVIEW under the head of Floods. Of the areas of deficiency, one embraces the South Atlantic States and Florida Peninsula, departures ranging from 0.57 inch in the former to 2.09 inches in the latter. The second area is found in the Rio Grande Valley, departure 0.21 inch. The third comprises the Extreme Northwest, Missouri Valley, Middle Slope, Middle Plateau, Middle Pacific Coast Region and the remaining districts to the north and west, departures ranging from 0.19 inch in the Extreme Northwest to 1.98 inches in the Middle Pacific Coast Region. As a means of interesting comparison, the following maximum departures from the normal are given for each year since 1873, together with the corresponding districts: 1874, very large excess, South Atlantic States and excess, Ohio Valley and Tenneesee; 1875, -2.08 inches Pacific Coast Regions, and +2.00 inches Western Gulf States; 1876, +2.30 inches Upper Lake Region and +1.75 inches Middle Atlantic States; 1877, -2.90 inches Ohio Valley and Tennessee, -2.50 inches Eastern Gulf States and -2.35 inches Lower Lake Region; 1878, +6.12 inches California coast, +5.27 inches, Portland Or., and —2.18 inches Tennessee; 1879, Portland, Or., +5.62 inches, —1.60 inches Western Gulf States, and 1.30 inches Middle States; 1880, +4.54 inches Tennessee, +2.47 inches St. Lawrence Valley and —2.51 inches Portland, Or.; 1881, +4.43 inches North Pacific Coast Region +3.09 inches Upper Lawrence Valley and +2.83 inches Eastern Gulf States and Lower Missouri Valley.

Deviations from Average Precipitation.—Under this heading departures exhibited by the reports from regular Signal Service stations are shown in the table of comparative monthly rain-falls, as published in the lower left-hand corner of chart No. III. The following items of importance are reported by Voluntary Observers: *Illinois*: Riley, total precipitation for month 2.15 inches or 0.71 inch more than the average of the past 19 years. Larger monthly precipitations occurred in 1861, 1869, 1876 and 1881. Total precipitation for winter of 1881-2 was 6.41 inches or 1.21 inches more than the average of the past 18 years. Only the winters of 1866-7, 1873-4, 1875-6, 1879-80 and 1880-1 had larger precipitations. *Indiana*: Vevay, total precipitation for the month 6.70 inches or 3.77 inches above the average of the past 17 years. Iowa: Clinton, monthly rain-fall below the average. Kansas: Manhattan, monthly precipitation 0.42 inch or 0.53 inch below the average of the past 22 years. Wellington, monthly precipitation 1.18 inches or 0.63 inch above the average of the past 3 years. Lawrence, monthly precipitation 1.66 inches or 0.43 inch above the February average of the past 14 years; during that period the largest monthly precipitation, 4.60 inches, occurred in 1881; the smallest, 0.03 inch, occurred in 1870. Yates Centre, monthly precipitation 2.89 inches or 0.74 inch above the average of past 2 years. Maine: Gardiner, monthly precipitation 4.96 inches or 1.67 inches above the average of the past 46 years. Maryland: Fallston, monthly precipitation 4.79 inches or about 1.50 inches above the average of the past 11 years. Missouri: St. Louis, Missouri Weather Service reports: monthly precipitation 7.34 inches, which has been exceeded only once since 1839, viz: in 1854, when the amount was 7.74 inches. New Hampshire: Contoocookville, monthly snowfall, 37 inches which is larger than for any winter month during the past 12 years, with the exception of December, 1876, when 42 inches fell. New York: North Volney, monthly precipitation 2.70 inches or 0.02 inch above the average of the past 9 years; during that period the largest monthly precipitation, 4.70 inches, occurred in 1876 and the smallest, 0.30 inch, occurred in 1877. The total precipitation for winter of 1881-2; was 11.20 inches average for 9 previous winters, 9.12 inches; largest, 13.95 inches, occurred in 1879; smallest, monthly precipitation, 3.14 inches or 0.88 inch above the aver- and Pioche, Nev., 0.37; Ft. Benton, Mont., 0.38; Avan, Neb.,

age of the past 27 years; during that period the largest monthly precipitation 4.90 inches occurred in 1876 and the smallest 0.25 inch, occurred in 1877. Texas: Clarksville; monthly rain-fall greater than the average of the corresponding month for past 12 years. Virginia: Wytheville, monthly precipitation 5.09 inches or 1.60 inches above the average of past 18 years. West Virginia: Helvetia, monthly precipitation 6.95 inches or an excess of 3.77 inches above the average of past 6 years.

Special Heavy Rains.—2d and 3d, New Ulm, Tex., 3.00 inches; Ft. Barrancas, Fla., 3.92. 3d, Vicksburg, 2.62; Shreveport, 2.97. 4th, Kittyhawk, N. C., 2.59; Barnegat, N. J., 3.50. 7th, Protem, Mo., 1.44 in 7 hours. 7th and 8th, Mt. Ida, Ark., 4.75. 8th, Little Rock, 3.33, Montgomery, 3.01; Auburn, Ala., 3.56, in 14 hours; Decatur, Tex., 2.73. 9th, Mayport, Fla., 1.00, in, 45 minutes. 16th, Protem, Mo., 2.00, from daylight to 9 a. m. 18th and 19th, College Hill, Ohio, 3.00. 19th, St. Louis, 3.96. 19th and 20th, Swanwick, Ill. 3.60; New Harmony, Ind., 4.30; Springfield, Ill., 2.69; Jefferson Barracks, Mo., 5.12. 20th, Indianapolis, 3.02; Louisville, 2.97; Springfield, Ill., 3.28; Bethel, Ohio, 2.50; Ft. Scott, Kan., 2.75, in 23 hours; Protem, Mo., 1.49, in 5 hours; St. Louis, 2.75. 27th and 28th, Highlands, N. C., 4.00; Eola, Or., 3.30. 28th, Little Rock, 2.57; Atlanta, 2.78; Auburn, Ala., 2.33, in 9 hours; Protem, Mo., 1.34 in 3 hours. On the 19th, 20th and 21st, St. Meinrad, Ind., 4.50; Curryville, Mo., 8.07.

Largest Monthly Rain-falls, including Melted Snow.—Fort Stevens, Or., 13.27 inches; Little Rock, Ark., 12.74; Auburn, Ala., 11.31; Highlands, N. C., 11.00; New Ulm, Tex., 10.94; Mt. Ida., Ark., 10.80; Portland, Or., 10.49; Fort Canby, Mt. Ida., Ark., 10.80; Portland, Or., 10.49; Fort Canby, Wash. Ty., 10.48; Fort Gaston, Cal., 10.46; Atlanta, Ga., 10.29; Memphis, 9.92; New Shoreham, R. I., 9.73; Louisville, 9.69; Olympia, Wash. Ty., 9.60; College Hill, Ohio, 9.50; Montgomery, Ala., 9.27; St. Meinrad, Ind., 9.20; Fort Barraneas, Fla., 9.16; Laconia, Ind., 9.13; Eola, Or., 9.06; Protem, Mo., 8.98; St. Louis, 8.94; Barnegat, N. J., 8.91; Shrayenort, 8.71. Nashvilla, 8.58. Naw Harmony, Ind. 8.56. Shreveport, 8.71; Nashville, 8.58; New Harmony, Ind., 8.56; Clarksville, Tex., 8.25; Anna, Ill., 8.17; Chamois, Mo., 8.08; Charleston, Ill., and St. Charles, Mo., 8.01; Rolla, Mo., 8.00; Austin, Tenn., 7.95; Springfield, Ill., 7.92; Forsyth, Ga., 7.90; Wellsboro, Pa., 7.86; White Plains, N. Y., 7.80; Princeton, Mass., 7.78; Murfreesboro, Tenn., 7.62; Murphy, N. C., 7.40; Westborough, Mass., 7.32; Ashwood, Tenn., 7.30; San Gorgonio, Cal., and Springfield, Mo., 7.29; Indianapolis, 7.28; Chattanooga, Tenn., 7.24; Swanwick Ill., 7.17; Vicksburg, 7.15; Cincinnati, 7.04; Bethel, Ohio, 7.00; Jefferson Barracks, Mo., 6.96; Helvetia, W. Va., 6.95; Vevay, Ind., 6.70; New Corydon, Ind., 6.68; Mascoutah, Ill., 6.54; Spiceland, Ind., 6.53; Big Creek and Centreville, Mo., 6.46; Charlottetown, P. E. I., 6.37; Jacksonburg, Ohio, 6.25; Dayton, Wash. Ty., 6.16; Northport, Mich., 6.15; Bowling Green, Ky., 6.11; Knoxville, Tenn., 6.10; South Lee, Mass., 6.00.

Smallest Monthly Rain-falls, including Melted Snow .- Browns, Hot Springs, Reno, and Tecomo, Nev., Indio and Mammoth Tank, Cal., Casa Grande, Maricopa, and Texas Hill, Ariz., none; Ft. Meade, Dak., and Yuma, Ariz., 0.01 inch; Duluth, Minn., Ft. Custer, Mont., St. Augustine, Fla., and West Las Animas, Col., 0.02; Smithville, Dak., 0.03; Cheyenne, Wyo., and Wadsworth, Nev., 0.05; Santa Fe, N. M., 0.06; Ft. Sully and Yankton, Dak., 0.09; Forts Lincoln and Yates, Dak., and Camp Near Presido, Tex., 0.10; Rio Grande City, Tex., 0.11; Ft. Washakie, Wyo., and Terry's Landing, Mont., 0.12; North Platte, Neb., 0.13; Foley, Mont., 0.14; Ft. Elliott, Tex., 0.16; Ft. Bridger, Wyo., and Ft. Keogh, Mont., 0.18; Rapid City, Dak., 0.19; Denver, Ft. McDermitt, Nev., and Punta Rassa, Fla., 0.20; Deadwood, Dak., 0.21; Dodge City, Kan., and Ft. Garland, Col., 0.22; Ft. Shaw, Mont., 0.23; Ft. Assinnaboine, 5.95 inches, occurred in 1877. Palermo, monthly precipitation 2.50 inches or 0.30 inch below the average of February for the past 29 years; largest during that period, 7.20 inches, occurred in 1866; smallest 0.10 inch, occurred in 1877. Ohio: Cleveland, Superior City, Neb., 0.35; Pike's Peak, 0.36; Helena, Mont., Ohio. City, 0.42; Ft. Hale Dak., and White Water, Cal., 0.48; Elko and Toano, Nev., New Chicago, Mont., Stockham, Pawnee

and Weeping Water, Neb., and Tracy, Cal., 0.50.

Rainy Days.—The number varied in New England from 12 to 21; Middle Atlantic States, 10 to 18; South Atlantic States, 4 to 13; Florida Peninsula, 3 to 10; East Gulf States, 11 to 14; West Gulf States, 7 to 16; Rio Grande Valley, 3 to 10; Ohio Valley and Tennessee, 10 to 17; Lower Lake Region, 12 to 19; Upper Lake Region, 9 to 20; Extreme Northwest, 5 to 11: Upper Mississippi Valley, 5 to 14; Missouri Valley, 4 to 14; Northern Slope, 3 to 8; Middle Slope, 2 to 7; Southern Slope, 3 to 9; Southern Plateau, 6 to 11; Middle Plateau, 7 to 10; Northern Plateau, 6 to 17; North Pacific Coast Region, 20 to 24; Middle Pacific Coast Region, 10 to 12; South Pacific Coast Region, 2 to 10.

Cloudy Days.—The number varied in New England from 5 to 17; Middle Atlantic States, 6 to 13; South Atlantic States, 5 to 16; Florida Peninsula, 0 to 2; East Gulf States, 6 to 12; West Gulf States, 2 to 15; Rio Grande Valley, 4 to 16; Ohio Valley and Tennessee, 10 to 15; Lower Lake Region, 8 to 15; Upper Lake Region, 9 to 17; Extreme Northwest, 2 to 9; Upper Mississippi Valley, 4 to 9; Missouri Valley, 4 to 12; Northern Slope, 0 to 7; Middle Slope, 1 to 3; Southern Slope, 5 to 13; Southern Plateau, 2 to 5; Middle Plateau, 5 to 9; Northern Plateau, 10 to 16; North Pacific Coast Region, 15 to 17; Middle Pacific Coast Region, 6 to 9; South Pacific

Coast Region, 2 to 6.

Snow .- The dates on which snow fell in the various districts are as follows: New England, 1st to 13th, 17th to 24th, 26th, 27th; Middle Atlantic States, 1st to 1stn, 10th, 12th, 19th to 24th; South Atlantic States, 4th, 5th; Tennessee, 4th, 21st; Ohio Valley, 2nd, 4th, 5th, 21st to 24th; Lower Lake Region, 1st to 5th, 17th, 10th, 17th to 24th; Upper Lake Region, 1st to 5th, 11th, 14th, 16th to 26th; Extreme Northwest, 1st, 3rd, 1th, 14th, 15th, 18th, 18th 6th, 9th, 12th, 14th to 19th, 22nd; Upper Mississippi Valley, 26th, 27th; Southern Slope, 2nd, 3rd, 8th, 19th, 20th; South-Coast Region, 7th to 14th, 16th, 17th, 19th, 20th, 23rd, 25th, 26th, 27th; Middle Pacific Coast Region, 10th, 11th, 12th, 17th, 18th; South Pacific Coast Region, 1st, 6th, 16th to 20th. Particularly heavy or remarkable snow falls were reported as follows: Contoocookville, N. H., 5th, snow fell to a depth of foot deep on a level and drifted to depths of from 2 to 10 feet. Eastport, Me., the storm of the 5th was one of the severest that has visited this section for years. It was accompanied through the country very difficult for several days. Dubuque, Iowa, 20th and 21st, heavy snow storm; trains delayed; tele-ticello, N. Y., 1st, snow 20 inches on the level. Concord, N. graphic communication interrupted. The Illinois Central H., 11th, snow fell to the depth of 10 inches on the level, makgraphic communication interrupted. Railroad Company ran their snow plows for the first time this season. La Crosse, 20th, heavy snow storm set in at 11 a. m. and continued throughout the day; the snow being light drifted badly, causing delay of trains. storm ended about 1.30 p. m.; depth of snow about 16 inches. St. Paul, 21st, snow storm ended at 12.50 p. m., nearly 2 feet having fallen during 20th and 21st, which is badly drifted. All trains delayed on account of snow blockades, which are reported as being very numerous in the southern part of State. Fort Washakie, Wyo., 20th heavy snow in mountains; stage travel seriously impeded. Fredericksburg, Va., 4th, heavy abandoned; mails brought in on horseback. Prescott, Ariz., 20th, snow reported to be 6 feet deep on the mountains. Eagle Rock, Idaho, 17th, 7.50 a. m. to 3 p. m., one of the severest snow storms of the season; trains on the Utah Northern Railroad delayed by blockades. 22nd, mails still delayed At points along the Norfolk and Western R. R., snow 10 to

and Key West, Fla., 0.40; Manhattan, Kan., and Salt Lake on account of snow blockades. Salinas City, Cal., 17th, snow fell to a depth of ½ inch, "which is more than has ever before been known to fall at this place." Springfield, Mass., 1st, heaviest storm since 1854, snow 22 inches on the level. Heavy storms in former years occurred as follows: January, 1857, 17 inches; January, 1867, 17 inches; December, 1869, 12 inches; February, 1873, 12½ inches. The great snow storm of January, 1867, impeded travel to a much greater extent than did the present storm, but the depth of snow was considerably less, the trouble at that time being the drifting by the heavy wind which accompanied the storm. Stockbridge, Mass., 1st, snow 22 inches on the level; heaviest storm for past 30 years. Carbondale, Pa., 4th, heaviest storm. for years; snow 36 inches on the level. Lewes, Del., 4th, most violent snow storm for years; wind attained an estimated velocity of 70 miles per hour. Along both the Middle Atlantic and New England coasts this storm proved to be the heaviest and most destructive for years. Many marine disasters occurred and immense drifts formed, which blockaded all railroad traffic for several days. vis, N. Y., 1st, snow fell to the depth of 14 inches. Poughkeepsie, N. Y., 1st, snow fell to the depth of 12 inches, and at several points on Long Island, to a depth of 16 inches. Boston, 1st, snow 18 inches on the level; one of the heaviest storms for many years. Long Branch, N. J., 4th, most violent snow storm on these shores for many years. Snow on the ground from 6 inches to 6 feet deep. Drifts in many places rendered travel impossible. All trains delayed. Easton, Pa., 4th, severest storm of the season; railway trains trains delayed in all directions. Poughkeepsie, N. Y., 4th, storm commenced at 11 a. m., and raged with great fury until 7.30 a.m. of the 5th. Travel of all kinds suspended. Free-port, Long Island, 4th, ten inches fell during the day; storm still raging. Baltimore, 4th, snow 12 to 14 inches on the level and in many places drifted from 4 to 6 feet deep. Gloucester, Mass., 1st, snow 18 inches on the level; in many 4th, 5th, 17th to 21st; Missouri Valley, 2nd, 16th to 21st, 23rd, places drifted to a depth of 12 feet and in the main streets 24th; Northern Slope, 3rd, 5th to 8th, 10th to 21st, 23rd, 26th from 6 to 8 feet on the north side. Schools closed throughout to 28th; Middle Slope, 1st, 6th, 7th, 11th, 12th, 17th to 22nd, the city and business generally suspended. Plymouth, Mass., 1st, severest storm for many years. Lebanon, N. H., 22d, 14 ern Plateau, 1st, 2nd, 6th, 7th 11th, 16th, 18th to 20th, 26th, inches on the level; heaviest storm of the season. Derby 27th; Middle Plateau, 1st, 5th to 7th, 9th to 12th, 15th to 17th. Line, Vt., 22d, 10 to 15 inches on the level. Hanover, N. H., 20th, 21st, 26th 27th; Northern Platteau, 5th, 7th to 9th, 22d, 12 inches on the level; heaviest fall of the season. Mon-11th, 12th, 13th, 15th, 16th, 17th, 20th to 27th; North Pacific treal, Can., 22d, streets blockaded with 4 feet of snow; all travel seriously obstructed. Philadelphia, 4th, all traffic much impeded; snow 10 to 15 inches on the level. Reports from various parts of the State show that the storm was most violent in the mountains west of Harrisburg. At many places the snow fell to a depth of three feet. At Williamsport, Sun-20 inches and drifted badly. Newport, R. I., 5th, snow one bury, Reading and Pottsville, and in the northern part of the State the storm proved to be very violent. South Framingham, Mass., 1st, in Worcester, Middlesex and Norfolk counties, highways blockaded; railway trains all delayed. Snow over 20 by a heavy blinding snow which drifted badly, making travel inches deep on the level. Lowell, Mass., 1st, snow 18 inches on the level. Narrowsburg, N. Y., 1st, snow two feet deep. Monticello, N. Y., 1st, snow 20 inches on the level. Concord, N. ing a total of 70 inches since the 1st, "a greater amount than that which has fallen in the whote month of February for the past 20 years." St. John, N. B., 10th, heavy snow storm accompanied by violent winds from the northeast. All trains on the St. John and Maine R. R. blockaded and "tremendous drifts" formed on the Inter-colonial R. R. The car shed of the latter railway company was demolished by the heavy weight of snow; loss estimated at \$75,000. Port Jervis, N. Y., 4th, snow 10 to 15 inches on the level and drifted badly; northeast storm for past 15 hours; snow 12 inches deep on the

depth of from 12 to 14 inches on the level. Street car travel

seriously obstructed.

Largest Monthly Snow-falls.—Emigrant Gap, Cal., 94 inches; Summit, Cal., 90; Cisco, Cal., 85; Mt. Washington, 54.50; Truckee, Nev., 49.50; Alta, Cal., 49; Princeton, Mass., 44; Westborough, Mass., 42.50; Dayton, Wash. T., 42.40; Newport, Vt., 39.55; Antrim, N. H., 38.50; Contoocookville, N. H., 37; New Market, N. H., 36.60; Lunenburg, Vt., 36.50; Boca, Nev., 36; Boston, and Grafton, N. H., 34; Woodstock, Vt., 30.75; Eastport, 31.40; Dexter, Me., 30.50; Worcester, Mass., 30.25; Rowe, and South Lee, Mass., 30: Marquette. Mass., 30.25; Rowe and South Lee, Mass., 30; Marquette, Mich., about 30; Colfax, Cal., and White Plains, N. Y., 29; New Bedford, Mass., about 27; Strafford, Vt., 26; New Shoreham, R. I., 25.30; Rochester, 24.60; Cornne, Utah and Deer Park, Md., 24; Somerset, Mass., and Ft. Myer, Va., 23.30; st. Paul, 22.60; Ashland, Wis., 22; San Gorgonio, Cal., 21.50; Amherst, Mass., 20; Northfield, Minn., 19.90; Dyberry, Pa., 19.50; Berryvale, Cal., and Helvetia, W. Va., 19; Northern Slope, Ft. Washakie, Wyo., 16th; Northern Kelton, Utah, and Port Jervyle, S. N. Y., 18; New London, Conn., Conn., Utah, and Port Jervyle, Park Northern Slope, Ft. Washakie, Col. 17th Charlette Vt. and Northern Wish. 17th Escapella. about 18; Charlotte, Vt., and Northport, Mich., 17; Escanaba, Mich., and Keene, Cal., 16; Prescott, Ariz., about 16; Fall River, Mass., 15.50; Newport, R. I., and Tehachapi, Cal., 15; Winnemucca, Nev., about 15; Johnstown, N. Y., 14.70; Freehold, N. J., 14.50; Washington, D. C., 14.20; Otega, Nev., 13.75; Catawissa, Pa., 13.40; Palermo, N. Y., and Southington, Conn., 13; Eagle Rock, Idaho, 12.70; Grand Haven, 12.60; South Orange, N. J., 12.25; Atlantic City, 12.10; According and Wytheville, Va., Vineland, N. J., Chambersburg, Pa., and Carson City, Nev., 12; Port Huron, 11.90; Ogden, Utah, 11.88; Waterburg, N. Y., and Promontory, Utah, 11.50; Duluth, Minn., 10.80; Lynchburg, Va., 10.70; Ardenia, N. Y., 10.50; Pagosa Springs, Col., Halleck, Nev., Flushing, N. Y., Logan, Ia., Fallston, Md., Princeton, N. J., and Franklin, Wis., 10; New York City, about 10; Wells, Nev., 9.75; Manitowoc, Wis., and West Chester, Pa., 9; Sandusky, 8.80; Terrace, Utah, Moorestown, N. J., and Friendship, N. Y., 8.50; St. Vincent, Minn., 8.30; Fallsington, Pa., Lincoln, Neb., Cooperstown, N. Y., Coalville, Utah, and Moorhead, Minn., 8; Ft. Missoula, Mont., about 8; Ithaca, N. Y., Somerville, N. J., and New Athens, Ohio, 7.50; Albany, N. Y., and Neillsville, Wis., 7.30; Battle Mountain and Palisade, Nev., Red Bluff, Cal., Williamsport, Pa., and Phillipsburg, N. J., 7. Depth of Snow on Ground at end of Month.—Colorado:

Somerset, trace; Rowe, 29 inches; Amherst, patches in accompanied by high wind velocities from the south and scattering places; Worcester, ground bare in many places; Springfield, 6 inches; Boston, 3 inches; Provincetown, 1 inch. Michigan: Northport, ½ inch; Marquette, 12 inches; Escanaba, 0 to ½ inch. Minnesota: Northfield, Minnesota: Northfield, Drought.—Deadwood, Dak., 27th, the small precipitation of the part two months have a positive months. Moorhead and St. Paul, trace; Duluth, 4 inches; St. Vincent, 11 inches. Montana: Ft. Missoula, 4 inches; Helena, 1 inch; Nevada: Pioche, 4 inches. New Hampshire: Grafton, 16 inches; Mt. Washington, 29 inches; New Market, 13 inches. New Mexico: Santa Fe, trace to 3 inches. New York: Albany, 2 inches; Cooperstown, 4 inches; Ithaca, Oswego and Palermo, trace; Johnson, 4 inches; *Pennsylvania*: Catawissa, trace on hills; Dyberry, 6 inches. *Rhode Island*: Newport, none in open country, but in sheltered places small quantities remain from the heavy storm that occurred on the 4th and 5th. Utah: Salt Lake City, trace. Vermont: Burlington and Strafford, 6 inches; Charlotte, 4 to 8 inches; Newport, about 10 inches;

Woodstock, 13 inches.

Rain, Hail or Snow from a Cloudless Sky.—Burlington, Vt., 1st, light snow at intervals during the day and night; 2d, 5th, 6th, 13th, 22d, 23d.

Hail.—Mobile, Ala., 28th, 11.30 a.m., lasting one minute; hailstones inch in diameter. Mason, Tex., 27th, 7.50 p. m., last-

15 inches deep. Washington, D. C., 4th, snow fell to the ing ten minutes; hailstones as large as pigeon's eggs. Fort Cummings, N. M., 27th, light hail. Camp Grant, Ariz., 19th, 10.30 to 11.30 a. m. San Francisco, 11th, 4.55 to 4.57 p. m.; 16th, 4.15 p. m. Los Angeles, Cal., 19th, 3 p. m., hail fell near the foot hills, 5 miles north and in Siera Madre Mountains, 13 miles north of station. Visalia, Cal., 17th. San Diego, Cal., 1st, 7.22 to 7.25 p. m., hailstones were soft and about the size of peas; 17th, 12.20 p. m., small hail. Pt. San Jose, Cal., 15th. Presidio, Cal., 11th, 6.30 a.m. Fort Stevens, Or., 5th. Fort Townsend, Wash, Ty., 10th. Paterson, N. J., 21st, 5.45 p. m., heavy fall of hail lasting 10 minutes. Ardenia, N. Y., 21st. Clarksville, Tex., 27th, hailstones one inch in diameter.

Sleet.—The dates on which sleet fell in the various districts are given as follows: New England, 9th, 10th, 12th, 20th, 21st, 23d; Middle Atlantic States, 4th, 5th, 19th, 21st; Ohio Valley, Cincin-16th, 20th; South Pacific Coast Region, Visalia, Cal., 17th. Unusually severe sleet storms have been reported, as follows: Toledo, throughout the night of 20th and during the 21st a storm of rain, sleet and snow raged with great violence; telegraph poles were prostrated and great damage done to fruit and shade trees. Telegraph lines were down in every direction; all communication cut off. The principal cause of destruction to property was the heavy sleet, which prevailed over an area of country within a radius of 20 miles about Toledo. Damage estimated at over \$5.000. Port Huron, Mich., 21st, everything covered with a thick coating of ice. A telegraph pole, supporting 30 wires, was broken down under its weight. Ft. Madison, Iowa, storm commenced on 19th and continued during 20th and 21st; rain froze as it fell; ground was covered with a sheet of ice; trees were weighed down with ice, and many limbs broken off. Ft. Scott, Kan., 20th to 24th; trees heavily loaded with ice; much damage done. Yates Centre, Kan., 19th and 20th, all exposed objects covered with ice 1 inch in thickness; storm the severest of the kind that has been experienced here for 3 years; sleet covered the ground to a depth of 4 inches. Warrenton, Mo., 20th, trees covered with ice; many evergreens broken down. Dyberry, Pa., 21st, trees on the hills loaded with ice an inch thick; thousands of limbs were broken off and many whole trees fell. All trees looked like weeping-Pike's Peak, about 6 inches. Connecticut: Southington, remains of drifts; New London, trace. Idaho: Eagle Rock, ground covered with a sheet of ice. Keokuk, 19th, 20th, rain 3\frac{1}{2} inches. Iowa: Ames, 4\frac{1}{2} inches. Maine: Gardiner, 30 inches, Crono, 10 inches, Eastport, 7 inches. Massachusetts:

Rochester 20th, very violent storm began in the early evening, accompanied by high wind velocities from the court and accompanied by high wind

past two months has caused great complaint as to scarcity of

water in this city and in the rural districts.

RELATIVE HUMIDITY.

The percentage of mean relative humidity for the month ranges as follows: New England, from 71 to 81; Middle Atlantic States, 61 to 82; South Atlantic States, 65 to 79; Florida Peninsula, 71 to 73; East Gulf States, 69 to 78; West Gulf States, 64 to 83; Rio Grande Valley, 67 to 81; Ohio Valley and Tennessee, 67 to 72; Lower Lake Region, 70 to 79; Upper Lake Region, 72 to 82; Extreme Northwest, 61 to 88; Upper Mississippi Valley, 61 to 74; Missouri Valley, 62 to 74; Northern Slope, 54 to 69; Middle Slope, 52 to 60; Southern Slope, 61 to 82; Southern Plateau, 55 to 70; Middle Plateau, 50 to 71; Northern Plateau, 61 to 85; North Pacific Coast Region, Olympia, 82.8, Portland, 82.5; Middle Pacific Coast Region, 69 to 75; South Pacific Coast Region, 46 to 70. High stations report the following percentages not corrected for altitude: